## WHAT IS CLAIMED IS:

1. A metal wiring board comprising a metal plate as a substrate, wherein:

the metal plate is processed in a predetermined wiring pattern;

the metal plate has a surface including a soldering area and a non-soldering area;

the soldering area is a conductive area prepared for electrical connection; and

the non-soldering area is an electrically isolated area coated with solder resist.

- 2. The metal wiring board according to claim 1, wherein the predetermined wiring pattern includes a wiring portion that functions as an electrical wire.
- 3. The metal wiring board according to claim 1, wherein the predetermined wiring pattern further includes a terminal portion for electrical connection with an external device.
- 4. The metal wiring board according to claim 1, wherein the processing of the metal plate is performed by stamping the metal plate.
- 5. The metal wiring board according to claim 1, wherein the solder resist coating on the non-soldering area is performed by solder resist printing.

- 6. The metal wiring board according to claim 1, wherein the wiring portions are held by a resin case at ends thereof.
- 7. The metal wiring board according to claim 1, wherein the soldering area is prepared for soldering of a surface mount device having leads with a small pitch.
- 8. The metal wiring board according to claim 8, wherein: the metal plate includes a plurality of soldering areas;
  and

the soldering areas are arranged so that a surface mount device bridges adjacent electrical wiring portions when soldered.

9. A method for manufacturing the metal wiring board claimed in claim 1, comprising:

defining the non-soldering area on the metal plate;

coating the surface of the metal plate with solder resist

except for the non-soldering area; and

removing unnecessary portions of the metal plate to form the predetermined wiring pattern.

- 10. The method for manufacturing the metal wiring board according to claim 10, further comprising processing the metal plate to provide the terminal portion.
- 11. The method for manufacturing the metal wiring board

according to claim 10, wherein the coating step is performed by solder resist printing.

- 12. The method for manufacturing the metal wiring board according to claim 10, the removing step is performed by stamping.
- 13. The method for manufacturing the metal wiring board according to claim 11, wherein the terminal portion are connected together at ends thereof with a frame portion, further comprising:

holding the electrical wiring portions by a case; and removing the frame portion.